

LOCAL BIAS GENERATOR FOR ADAPTIVE FORWARD BODY BIAS

ABSTRACT OF THE DISCLOSURE

A local bias generator generates forward body bias that tracks variations in a supply voltage of a functional block containing one or more circuits having field-effect transistors. The bias is generated using a single-stage source-follower formed from a pair of matched transistors. In operation, the transistors convert a first bias signal into a second bias signal based on a difference between the supply voltage and a reference voltage. The first bias signal and reference voltage may be generated by a central bias generator.